Appendix E Baseline Storm Water Awareness Survey

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Michigan Department of Transportation: Employee Storm Water Awareness Survey

(Revised – February 18, 2005)

This is an anonymous survey intended to help develop a storm water education program for MDOT employees and contractors. Your answers will help to determine what storm water management topics to address in future educational materials and training programs for MDOT employees and contractors that perform job-related activities with the potential to affect the quality of storm water discharges. Your answers are strictly confidential and will not be used for any other purpose. Thank you in advance for your time to complete this survey.

Α.	Background Information
1.	Organizational Affiliation:
2.	Department/Division (if an MDOT contractor, list the MDOT Division you work with most often):
3.	Years of Experience with MDOT: 0-5 yrs 6-15 yrs 16-25 yrs more than 25 yrs
4.	Total Years of Work Experience:
5.	Civil Service Classification (if an MDOT Employee):
6.	Highest Level of Education (if not an MDOT Employee): High school/GED Associate's degree Bachelor's degree Graduate degree
7.	Geographic Area of Responsibility (select all those that apply): Statewide Southwest Region University Region Bay Region Superior Region Metro Region North Region
В.	General Storm Water and Water Quality Questions
1.	To what extent do you feel that water pollution is a problem in Michigan? Low - \square 1 \square 2 \square 3 \square 4 \square 5 - High
2.	Have you received any training on MDOT's storm water program? Yes No
3.	Do you know that MDOT has a Public Storm Water Web Site? Yes No
4.	If you answered "Yes" to number 3, how often have you visited the MDOT Public Storm Water Web Site in the past six months? (Check the one that best applies) Never Six to ten times One to five times So many times, I can't count them all.

5. In your opinion, what is the most important	thing MDOT should do to help protect water quality?
6. In your opinion, what is the most important contractor to prevent storm water pollution?	thing that you can do as an MDOT employee or
7. What is the largest cause of water pollution order of significance, with 1 being the most Agriculture Sewage spills from wastewater treatment plants	in Michigan? (Rank top 3 causes of water pollution in significant.) Urban storm water runoff Industries Contaminated sediments
8. Storm water runoff is rain and snowmelt cor or lake untreated. Is this statement true or	nveyed by a drainage system and discharged to a river false? True False
9. Which structures and features are part of MI Catch basins Inlets Sidewalks Underdrains	DOT's drainage system? (Check all those that apply): Roadside ditches in MDOT's ROW Culverts Don't know
10. What are common sources of pollutants that system? (Check all those that apply): Vehicle washing and maintenance active Litter Material storage Material loading	t may affect storm water runoff in MDOT's drainage vities Spills Snow removal and deicing Construction activities Don't know
 11. Which of these found in or near an MDOT indication of problems in the drainage syste Water draining from outfalls during dry Rotten egg odor Staining on outlet pipe Oily sheen 	
12. Do you know that it is illegal to dump anyth wash water, etc.) into a storm drain or gutte	ning except storm water (i.e. motor oil, paint, dirty r? Yes No
	the proper disposal method(s) for any waste materials teck one Low - 1 2 3 4 5 - High
14. If you had to clean up dirt and landscaping you hose down the area into the nearest stor	materials from an outside paved area at work, would rm drain? Yes No

15	5. Do you know what a non-emergency storm water If "Yes", do you know who to report a work-relate to? Yes No If you answered "Yes," please list the title of the process.	ed non-emergency storm water pollution problem		
16	6. What type of work training is most effective for year	ou? (Rank top 3 work training types in order of		
	effectiveness, with 1 being the most effective.)			
	Class-room presentations	Field manual		
	Field trips	Video		
	On-line tutorials	Other:		
17	7. What type of materials will help you to remember job? (Rank top 3 material types in order of effective Newsletter articles Web site Poster E-mail			
C. Specific Job Category Questions Please answer the questions under one job category below that best applies to your job responsibilities. The three job categories are as follows: Design, Construction, and Maintenance.				
Jo	ob Category: Design			
1.	. Have you used MDOT's Drainage Manual? You	es 🗌 No		
2.	 Have you received training on MDOT's Drainage If you answered "Yes," please rank the effectivened training. Formal training session Low Brief overview with supervisor Low Read the Drainage Manual. Low 	ess of the selection(s) that best describes your $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		
3.	In your experience, at what point in the MDOT proinitially considered? (Check the one that most app Project Scoping Preliminary Engineering Construction	ject delivery process is storm water management		
4.	Check the box that best represents a permanent structure. Sand and stone bags Employee training A detention basin	Street Sweeping Don't know		

5.	5. What are the three most significant barriers/challenges to incorporating sto controls in the design of a project? (Rank top three barriers/challenges in with 1 being the most significant barrier.)	-		
	Cost considerations Aesthetics			
	Land availability Maintenance i	ssues		
	Public safety issues Other:	100000		
	Special needs (e.g., impact to trout Don't Know			
	habitat)			
6.	Do MDOT project designs routinely include storm water pollution controls to address water <i>quality</i> , as opposed to water <i>quantity</i> ? Yes No Don't know If you answered "No," please explain.			
7.	7. Does MDOT design soil erosion and sedimentation controls so that they all storm water pollution controls to address water quality? Yes No			
8.		ter pollution controls tenance schedules of installation		
9.	9. Are plans for permanent MDOT storm water pollution controls routinely design process? Yes No Don't know	prepared as part of the		
Job Category: Construction 1. Have you used MDOT's Soil Erosion and Sedimentation Control (SESC) Manual? Yes No				
2.	at best describes your			
	training. • Formal MDEQ training Low - \[\begin{array}{c c} 1 & \begin{array}{c c} 2 & \begin{array}{c c} 3 & \begin{array}{c c} 4 \end{array}	5 - High		
	• Storm Water Operator training Low - 1 2 3 4			
		5 High		
	• Overview internal to MDOT Low 1 2 3 4	<u></u> 5 - High		
	 Overview internal to MDOT Low - 1 2 3 4 Read SESC Manual Low - 1 2 3 4 	5 - High 5 - High		
	• Read SESC Manual Low - 1 2 3 4	<u></u> 5 - High		
3.		5 - High 5 - High		
3.4.	 Read SESC Manual Low - 1 2 3 4 3. Are you a certified storm water operator? Yes No 4. What are the signs that a soil erosion and sediment control is not effective apply.) 	5 - High 5 - High 5 - High 7 - High		
	 Read SESC Manual Low - 1 2 3 4 3. Are you a certified storm water operator? Yes No 4. What are the signs that a soil erosion and sediment control is not effective apply.) Soil and mud on adjacent roadways Sagging silt for a signs that a soil erosion and sediment control is not effective apply.) 	☐ 5 - High ☐ 5 - High ☐ 5 - High ☐ 5 - High 2? (Check all those that ence		
	 Read SESC Manual Low - 1 2 3 4 3. Are you a certified storm water operator? Yes No 4. What are the signs that a soil erosion and sediment control is not effective apply.) Soil and mud on adjacent roadways Full sediment traps and basins 	☐ 5 - High ☐ 5 - High ☐ 5 - High ☐ 5 - High 2? (Check all those that ence		
	 Read SESC Manual Low - 1 2 3 4 3. Are you a certified storm water operator? Yes No 4. What are the signs that a soil erosion and sediment control is not effective apply.) Soil and mud on adjacent roadways Sagging silt for a signs that a soil erosion and sediment control is not effective apply.) 	☐ 5 - High ☐ 5 - High ☐ 5 - High ☐ 5 - High 2? (Check all those that ence		
4.	 Read SESC Manual Low - 1 2 3 4 3. Are you a certified storm water operator? Yes No 4. What are the signs that a soil erosion and sediment control is not effective apply.) Soil and mud on adjacent roadways Full sediment traps and basins 	5 - High 5 - High 5 - High Creek all those that ence or dust		

7.	Have you ever identified a problem with materials waste management at a construction site? Yes	
8.	If you answered "Yes" to number 7, did you repor	t the problem?
9.	How often are soil erosion and sediment controls in that apply.) Daily Weekly After major changes on the site	inspected at construction sites? (Check those Change of seasons After every significant rain event Other:
10.	O. What have you found to be the most effective way site? (Check the one that most applies.) Complete project before the rainy season Maintain best management practices Limit the area disturbed Install best management practices prior to	
11.	1. What have you found to be the most effective way site? (Check the one that most applies.) Inspect contractor's equipment and fuel storm Discuss the importance of pollution prever Include a special provision telling the Communication Remind contractor of potential enforcement	orage area ntion often tractor what to do
12.	 Brochure Condensed version of the SESC Manual Poster Pictures of ineffective BMPs On-line reporting form 	
Jo	ob Category: Maintenance	
1.	Are MDOT's Maintenance Performance Standard maintenance activity procedural information?	Yes No
	2. If you answered "No" to number 1, please deson maintenance activities.	cribe the primary way you receive information
3.	Have you received training on maintenance consider Management Program internal training program?	

4.	water pollution prevention techniques for maintenance activities? Low - \[\] 1 \[\] 2 \[\] 3 \[\] 4 \[\] 5 - High
5.	Are you familiar with the procedures in your maintenance facility's Pollution Incidence Prevention Plan (PIPP)? Yes No
6.	Do you know where spill containment equipment is stored at your facility? Yes No
7.	Where is the best place to wash and service vehicles and equipment? (Check the one that best applies.) Outside near unprotected storm drain Inside near a sanitary sewer drain
	☐ Inside with floor drain to storm sewer system ☐ Outside near a stream
8.	Where are vehicles and equipment washed at your facility? (check all those that apply): Inside with floor drain to sanitary sewer system Outside near unprotected storm drain Inside with floor drain to storm sewer In a covered area, but unsure where drain goes Other:
9.	Do you know where the floor drains discharge to in your facility ? Yes No
10	On a scale of one to five, how conscientious do you feel the staff at your facility are about minimizing the exposure of potentially polluting materials and equipment to rain? 1 (very conscientious) 2 (conscientious) 5 (never conscientious) 3 (somewhat conscientious)
11	. What materials, if any, stored outside the facilities where you work do you feel have the most significant potential to contribute pollutants to storm water runoff?
12	. How often is your storage yard or maintenance facility swept? (Check the one that best applies.) Daily Weekly Unknown Other:
13	. Does your facility calibrate salt dispensers before deicing? Yes No Don't know
14	. If you conduct pesticide and fertilizer application activities, is your MDOT pesticide applicator certification training current? Yes No I do not conduct these activities.
15	. Do you conduct inspection and maintenance of structural storm water pollution controls? Yes No
16	i. If you answered "Yes" to number 15, do you follow the associated maintenance plan for structural storm water pollution controls prepared during the preliminary engineering phase of the project? Yes No
17	. If you answered "No" to number 16, please explain why you do not follow the associated maintenance plan for storm water pollution controls.